

CLAIMS

1. A receiving element (1) for receiving a biological specimen detached from a biological mass (7) by means of laser radiation,
5 the receiving element (1) comprising a receiving surface for receiving the specimen,
the receiving surface comprising an adhesive agent (4) for enhancing the adhesion of the respective specimen
10 to the receiving surface,
characterised in that
the adhesive agent (4) may be dissolved without impairing the suitability of the specimen for predetermined processing and/or analysis.
- 15 2. A receiving element (1) according to claim 1,
characterised in that,
for dissolution, the adhesive agent (4) is liquefiable by input of heat.
- 20 3. A receiving element (1) according to claim 1 or claim 2,
characterised in that
the adhesive agent (4) may be dissolved without
25 damaging the specimen.
4. A receiving element (1) according to any one of the preceding claims,
characterised in that
30 the adhesive agent (4) comprises agents for carrying out the predetermined processing and/or analysis.

5. A receiving element (1) according to any one of the preceding claims,
characterised in that
the adhesive agent (4) is so designed that, after
5 dissolution, it does not influence the predetermined processing and/or analysis.

6. A receiving element (1) for receiving a biological specimen detached from a biological mass (7) by means
10 of laser radiation,
the receiving element (1) comprising a receiving surface for receiving the specimen,
the receiving surface comprising an adhesive agent (4) for enhancing the adhesion of the respective specimen
15 to the receiving surface,
characterised in that
the adhesive agent (4) is so designed that it suppresses the occurrence of electrostatic forces, acting on the specimen, in the receiving element (1).
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7. A receiving element (1) for receiving a biological specimen detached from a biological mass (7) by means of laser radiation,
the receiving element (1) comprising a receiving surface for receiving the specimen,
25 the receiving surface comprising an adhesive agent (4) for enhancing the adhesion of the respective specimen to the receiving surface,
characterised in that
the adhesive agent (4) is so designed that it may receive agents for further processing and/or analysis
30 of the specimen.

8. A receiving element (1) for receiving a biological specimen detached from a biological mass (7) by means of laser radiation,
the receiving element (1) comprising a receiving surface for receiving the specimen,
5 the receiving surface comprising an adhesive agent (4) for enhancing the adhesion of the respective specimen to the receiving surface,
characterised in that
10 the adhesive agent is a hydrogel (4).
9. A receiving element (1) according to claim 7,
characterised in that
the hydrogel (4) is so designed that it suppresses the
15 occurrence of electrostatic forces, acting on the specimen, in the receiving element (1).
10. A receiving element (1) according to claim 8 or claim 9,
20 **characterised in that**
the hydrogel (4) may be dissolved without damaging the specimen.
11. A receiving element (1) according to claim 10,
25 **characterised in that**
the hydrogel (4) may be dissolved by addition of an enzyme.
12. A receiving element (1) according to claim 10 or claim 30 11,
characterised in that,
for dissolution, the hydrogel (4) is liquefiable by input of heat.

13. A receiving element (1) according to any one of claims 8 to 12,
characterised in that
the hydrogel (4) is so designed that it may receive
5 agents for further processing and/or analysis of the specimen.

14. A receiving element according to claim 13,
characterised in that
10 the agents for further processing and/or analysis of the specimen are incorporated in the hydrogel (4).

15. A receiving element according to claim 14,
characterised in that
15 the agents for further processing of the specimen comprise buffer agents, a cell culture medium and/or an enzyme prebatch.

16. A receiving element (1) according to any one of claims 8 to 15,
characterised in that
the hydrogel (4) comprises agarose.
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17. A receiving element (1) according to claim 16,
characterised in that
25 the hydrogel consists of pure agarose.

18. A receiving element (1) according to any one of claims 8 to 15,
characterised in that
30 the hydrogel (4) comprises a hydrogel based on proteinogenic substances, collagen, a sugar-based network former and/or polyacrylamide.

19. A receiving element (1) according to any one of claims 1 to 18,
characterised in that
the receiving element (1) comprises a lid portion (2) for covering a container (5) and a supporting element (3) fitted in the lid portion (2), said supporting element (3) having the receiving surface on a side remote from the lid portion (2).
- 10 20. A receiving element (1) according to claim 19,
characterised in that
the supporting element (3) is made of silicone or acrylic polymer.
- 15 21. A receiving element (1) according to claim 19 or claim 20,
characterised in that
the supporting element (3) exhibits a height which is so selected that the distance between the hydrogel (4) and a base (5a) of the container (5) is less than 10 mm when the lid portion (2) is covering the container (5).
22. A receiving element (1) according to any one of claims 19 to 21,
characterised in that
the supporting element (3) is fitted removably on the lid portion (2).
- 30 23. A receiving element (1) according to any one of claims 1 to 18,
characterised in that
the receiving element takes the form of a multiple culture dish (1).

24. A receiving element (1) according to any one of claims 1 to 18,
characterised in that
5 the receiving element takes the form of a microtitre plate.
25. A receiving element (1) according to any one of the preceding claims,
10 **characterised in that**
receiving wells (20) of the receiving element (1) are filled to a predetermined level with the adhesive agent (4).
- 15 26. A receiving element (1) according to any one of claims 7 to 25,
characterised in that
the receiving element is designed according to any one of claims 1 to 6.
- 20 27. Use of a receiving element (1) according to any one of claims 1 to 26 for collecting a biological specimen which has been detached from a biological mass using a laser beam.
- 25 28. Use according to claim 27,
characterised in that
detachment of the specimen from the biological mass (7) is effected by a laser-triggered transportation process.
- 30 29. A method of recovering a biological specimen,
characterised in that

the specimen is detached with a laser from a biological mass (7) and transported to a receiving element (1),

5 the specimen is received on a receiving surface of the receiving element (1) according to any one of claims 1 to 25, and

the adhesive agent (4) of the receiving element (1) is dissolved.

10 30. A method according to claim 29,
characterised in that,
when the adhesive agent (4) is dissolved, agents
incorporated in the adhesive agent for further
processing and/or analysis of the biological specimens
15 are liberated.